

**State of Wisconsin/Department of Transportation  
RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: December 31, 2002**

**Project ID: 0092-00-01**

**Project Title: Evaluation of Implementation Issues for AVL Systems for WI Transit Services**

**Approved Starting Date (Contract Date): 3/2/2000**

**Estimated Completion Date: 12/31/2003**

**Primary Investigator: Edward Beimborn, University of Wisconsin – Milwaukee**

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**Administrative Contact: Nina McLawhorn**

**Description:** This study is aimed at a careful analysis of key factors involved in deploying AVL technologies in a cost-effective manner that provides greatest user benefits. Field surveys will be carried out on transit systems in two Wisconsin cities. Data will be collected before and after AVL systems have been implemented to measure the benefits and identify critical organizational and technology issues.

**Project Cost: \$180,000**

**Expenditures for current quarter:**

**Total Expenditures to date: \$69,187.85**

**Percent Complete:**

**Progress This Quarter: (Includes project committee meetings, work plan status, contract status, significant progress, etc.)**

Initial results of the study have been summarized in a paper "User Perceptions of AVL Benefits." The paper, summarizing results of data collected at Racine and Manitowoc, is at the following location on the web: <http://www.uwm.edu/Dept/cuts/user-avl.pdf>

The first phase of the project, which included collecting pre-AVL operations data and conducting customer surveys, has been completed. Manitowoc made a decision not to install AVL equipment because of the cost. Manitowoc has been replaced in this project by the City of Waukesha. All of the pre-installation data has been collected for the Waukesha Metro system. The second phase of the research project involves collecting the same operations data and conducting additional customer surveys to determine the effect of an AVL system on performance and public opinion. This work will be done once AVL equipment has been installed and implemented at the participating transit systems.

Siemens has been selected by a project technical committee as the preferred vendor to supply AVL and related technologies to transit systems in Wisconsin. Transit systems are now free to enter into individual contracts with the vendor. Both Racine and Waukesha are currently working with Siemens, however, it is not anticipated that the AVL equipment will actually be installed until some time in 2003.

**Work Next Quarter: (Includes project committee meetings, work plan status, contract status, significant progress, etc.)**

This first phase of the project, which is a "before" survey of transit system performance, has been completed. The second phase, the "after" survey, will take place after the procurement and installation of AVL equipment at the Racine and Waukesha transit systems. This will not occur until the fourth quarter of CY 2003 at the earliest.

**Circumstances Affecting Progress/Budget:**

Manitowoc has dropped out of the project, and Waukesha Metro has been included. The project budget will now cover the additional "before" survey at Waukesha. An amendment to obligate the remaining \$10,000 for this project will not be completed. It has been determined that the project can be completed within the original budget of \$180,000.

**Please insert or attach Gantt Chart**

